

U.S.S.N. 10/604,498

3

15-XI-6176 (GEMS-A 0130 PA)

In the claims:

1. (Currently Amended) An imaging X-ray tube rotor assembly for an imaging tube comprising: ~~at least partially, a magnetic non-corrosive material~~

a rotor core comprising:

at least one slot;

at least one bar; and

a non-sprayed-on non-corrosive sleeve coupled to and at least partially covering said rotor core.

2. (Currently Amended) An imaging X-ray tube rotor assembly as in claim 1 ~~comprising~~ wherein said [[a]] rotor core is produced at least partially from a magnetic non-corrosive material.

3. (Currently Amended) An imaging X-ray tube rotor assembly as in claim [[2]]1 wherein said rotor core approximately comprises at least 12% chromium.

4. (Currently Amended) An imaging X-ray tube rotor assembly as in claim [[2]]1 wherein said rotor core at least partially comprises stainless steel.

5. (Currently Amended) An imaging X-ray tube rotor assembly as in claim [[2]]1 ~~further comprising~~ wherein said non-sprayed-on non-corrosive sleeve comprises an oxidized exterior surface.

6. (Currently Amended) An imaging X-ray tube rotor assembly as in claim [[2]]1 ~~further comprising~~ wherein [[a]] said slot is integrally formed

U.S.S.N. 10/604,498

4

15-XT-6176 (GEMS-A 0130 PA)

with said rotor core[[:]] and said [[a]] bar is produced at least partially from a non-magnetic highly conductive material coupled to said slot.

7. (Original) An imaging X-ray tube rotor assembly as in claim 6 wherein said non-magnetic highly conductive material comprises at least one of the following: copper, aluminum, silver, nickel, cobalt, and an alloy formed of two or more of the stated materials.

8. (Currently Amended) An imaging X-ray tube rotor assembly as in claim [[2]]1 further comprising:

a plurality of slots integrally formed with said rotor core; and

a plurality of bars produced at least partially from a non-magnetic highly conductive material and coupled to said plurality of slots.

9. (Original) An imaging X-ray tube rotor assembly as in claim 8 wherein said non-magnetic highly conductive material comprises at least one of the following: copper, aluminum, silver, nickel, cobalt, and an alloy formed of two or more of the stated materials.

10. (Currently Amended) An imaging X-ray tube rotor assembly as in claim [[2]]1 further comprising[[:]] a sheet coupled to said rotor core and produced at least partially from a non-magnetic highly conductive material; ~~and a sleeve coupled to said sheet and produced at least partially from a non-magnetic non-corrosive material.~~

11. (Currently Amended) An imaging X-ray tube rotor assembly as in claim [[10]]1 wherein an exterior ~~oxidized~~ surface of said non-sprayed-on non-corrosive sleeve is oxidized.

U.S.S.N. 10/604,498

5

15-XT-6176 (GEMS-A 0130 PA)

12. (Currently Amended) An imaging X-ray tube rotor assembly as in claim ~~[[10]]~~1 wherein an exterior ~~oxidized~~ surface of said non-sprayed-on non-corrosive sleeve is non-oxidized.

13. (Original) An imaging X-ray tube rotor assembly as in claim 10 wherein said non-magnetic highly conductive material comprises at least one of the following: copper, aluminum, silver, nickel, cobalt, and an alloy formed of two or more of the stated materials.

14. (Currently Amended) An imaging X-ray tube rotor assembly as in claim ~~[[10]]~~1 wherein said ~~non-magnetic~~ non-sprayed-on non-corrosive ~~iron-based material~~ sleeve comprises approximately at least 12% chromium.

15. (Currently Amended) An imaging X-ray tube rotor assembly as in claim ~~[[10]]~~1 wherein said ~~non-magnetic~~ non-sprayed-on non-corrosive ~~iron based material~~ sleeve comprises stainless steel.

16. (Currently Amended) An imaging X-ray tube rotor assembly comprising:

a rotor core produced at least partially from stainless steel and comprising;

a plurality of slots integrally formed with said rotor core; ~~and~~

a plurality of bars produced at least partially from a non-magnetic highly conductive material and coupled to said plurality of slots; and

a non-sprayed-on sleeve coupled to and over said rotor core.

Claim 17 canceled.

U.S.S.N. 10/604,498

6

15-XT-6176 (GEMS-A 0130 PA)

18. (Currently Amended) A method of producing an imaging X-ray tube rotor assembly comprising:

forming a rotor core at least partially from a magnetic non-corrosive iron based material; and

forming a sleeve produced at least partially from a non-magnetic, non-sprayed-on, and non-corrosive material over said rotor core.

19. (Original) A method as in claim 18 wherein forming a rotor core comprises forming said rotor core at least partially from chromium.

20. (Original) A method as in claim 18 further comprising forming a sheet over said rotor core and at least partially from a non-magnetic highly conductive material.

Claims 21 canceled.

22. (Currently Amended) A method as in claim ~~[[21]]~~18 further comprising oxidizing an exterior surface of said sleeve.

23. (Original) A method as in claim 18 further comprising:
integrally forming a slot in said rotor core; and
forming a bar within said slot and at least partially from a non-magnetic highly conductive material.

24. (Original) A method as in claim 18 further comprising:
integrally forming a plurality of slots in said rotor core; and

U.S.S.N. 10/604,498

7

15-XT-6176 (GEMS-A 0130 PA)

forming bars within said plurality of slots and at least partially from a non-magnetic highly conductive material.

25. (Original) A method as in claim 18 further comprising oxidizing an exterior surface of the imaging tube rotor assembly.